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EMC Corporation #include <csc cscomm.h=""> #include <csc< td=""><td>####### 69 1</td></csc<></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc>	####### 69 1
EMC Corporation ===================================	68 1
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#include <csc cscomm.h=""> ===================================</csc>	Corporation
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Page 1 of to Inu Dec 27 11:29:33 2007 LockSvcMutex Page 2 of 16	1 nu Dec 2/

Page 3 of 16 EDMDI		- ~	static boolean_ty if (first == TRUE)
EDMDDcr_rstsvc.cc 3	(&G_serviceMtx);	<pre>first = FALSE; pthread_mutex_init(&G_serviceMtx, NULL);</pre>	first = TRUE;
Thu Dec 27 11:29:33 2007			
Page 4 of 16	140 142 143 144 144 146 146 146 147 148 148 151 151 151 151 153 1 153 1 154 1 155 1 157 1 158 1 158 1 159 1 159 1 159 1 159 1 159 1 159 1 159 1 159 1 159 1 1 1 1		
EDMDDcr_rstsvc.cc 4	** Outputs: None ** Return Codes: ** Purpose: Unlock the mutex for service execution ** Purpose: Unlock the mutex for s	Routine: UnlockSvcMutex Inputs: None	<u></u> /************************************
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                                                                                                                                                                                                                                                                     //
// Cast the
//
                                                                                //
// EDM-Link should have called our callback D(
// should have loaded DOMIHandle->ErrorBlock,
// now, is return.
//
//
// NULL == TargetObjPtr )
                                                                                                                                                                                                                                                         os_q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       void
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      // EDMDDHandle *
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DDRSTsvc_init(void *pSessObj)
                                                                                                                                                                            TargetObjPtr
                                                                                                                                                                                                                                                                                                                                                                ~ ±
                                                                                                                                                                                                                                                                                                                                                                                      :::
                                                                                                                                                                                                                                                                                                                                                                                                                                   pthread_mutex_lock( &cscPortRdy_mutex
                                                                                                                                                                                                                                                                                                                                                                                                                                              LockSvcMutex();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ::
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                                                                                                                                                                                                              system
                                                                                                                                                                                                                         Construct
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                      launch one service at a
                                                                                                                                                                                                                                                                                                                                                                           (ELinkHandle
                                                            p_so -> setStatus(DD_SERVICE_FAILURE_NONEXEC);
                                     pthread_mutex_unlock( &cscPortRdy_mutex)
                            pthread_exit( NULL
                                                  UnlockSvcMutex();
                                                                                                                                                                                                                                                                                                                              pthread_exit( NULL );
                                                                                                                                                                                                                                                                                                                                         pthread_mutex_unlock( &cscPortRdy_mutex);
                                                                                                                                                                                                                                                                                                                                                    UnlockSvcMutex();
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                                                                                                                                                                                                                                                         (EDMSession*)pSessObj;
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                                                                                                                                                                                                                                                                                input argument to its
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                                                                                                                                                                                                                                                                                                                                                                            NULL)
                                                                                                                                                                                                              talk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              options = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           status;
bh=NULL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CmdObjPtr;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               UserIdObjPtr;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TargetObjPtr;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               sID;
ShellHandle;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   *svc_rpc_h=NULL; /* X-Service RPC Handle */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1rc;
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fd2;
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                                                                                                                                                                                                                                                                                                                                                                                                   EDMLINK handle didn't
                                                                                                                                                                                                              to.
 EDMDDcr_rstsvc.cc 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       time
                                                                                                                                our callback DOMIELinkCallback which
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     pEHandleObj,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DDRSTsvc_init
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             `*
                                                                                                                                                                                                                                                                                 object type
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /* For ELinkNewServiceLaunchObj
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /* UserId object
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              *
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                                                                                                                                                                                                                          so that EDM-Link will
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Shell command
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Target object all functions
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local Return Code
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                                                                                              if ( NULL == CmdObjPtr )
{
                                                                                                                    >>>>>
                                                                                                                                                                                                                          CmdObjPtr =
                                                                                                                                                                                                                                                                        Ή£
                                                                                                                                                                                                                                                                                                                                ::::
                                                                                                                                                                                                                                                                                              // private service is: /usr/epoch/service/domainpd
//
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        if ( NULL == UserIdObjPtr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   // will control
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           // that
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 // to run
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      // always start using
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          We are starting a private service that will run on an {\it EDI}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                // target
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                                                                                                                               EDM-Link should have called our callback DOMIELinkCallback wh should have loaded DOMIHandle->ErrorBlock, so all we have to now, is return.
                                                                                                                                                                                                                                                                                                                              domain private service.
be found in /usr/epoch/:
                                                                                                                                                                                                                                                                                                                                           Utilize the EDM-Link service launcher to physically startup the domain private service. By convention, all private services can
                                                                                                                                                                                                                                                                      (IsDebugOn()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MOII,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           should have loaded
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EDM-Link should have called our callback DOMIELinkCallback which
                        pthread_mutex_unlock( &cscPortRdy_mutex);
pthread_exit( NULL );
                                                UnlockSvcMutex();
                                                           p_so -> setStatus(DD_SERVICE_FAILURE_NONEXEC)
                                                                     (void) ELinkDestroyObj( ELinkHandle,
(void) ELinkDestroyObj( ELinkHandle,
                                                                                                                                                                                                                                                           options |=
                                                                                                                                                                                                                                                                                                                                                                                                    pthread_mutex_unlock( &cscPortRdy_mutex);
pthread_exit( NULL );
                                                                                                                                                                                                                                                                                                                                                                                                                            UnlockSvcMutex();
                                                                                                                                                                                                                                                                                                                                                                                                                                      p_so -> setStatus(DD_SERVICE_FAILURE_NONEXEC);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Construct EDM-Link user object.
                                                                                                                                                                                                                                                                                                                                                                                                                                                   (void)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ž
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          there a limited things that it can do and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 as root and will have
                                                                                                                                                                                                                                                                                                                                                                                                                                                   ELinkDestroyObj( ELinkHandle, TargetObjPtr );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                return.
                                                                                                                                                                                                                          ELinkNewServiceLaunchObj( ELinkHandle,
                                                                                                                                                                                                                                              ELINK_SERVICE_DEBUG;
/* if we are debug,
                                                                                                                                                                                                                                                                                                                                 /usr/epoch/service
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ELinkNewUserIdObj ( ELinkHandle,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   what can
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DOMIHandle->ErrorBlock,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  be done.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       root
EDMDDcr_rstsvc.cc 6
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                                                                                                                                                                                                                                                                                                                                 and have a suffix
                                                                                                                                                     callback DOMIELinkCallback which
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TargetObjPtr
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                                                                                                                                                                            options );
                                                                                                                                                                                                   "edmrestoreeng"
                                                                                                                                                                                                               TargetObjPtr,
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                                                                                                                                                                                        /* Domain private
                                                                                  TargetObjPtr
                                                                     UserIdObjPtr
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                                                                                          p_so
                                                                 p_so
                                                                                                                                                                                                                                                 if ( 0 != lrc )
                                                                                                                                                                                                                                                                                        lrc = ELinkGetConnectHandle( ELinkHandle,
                                                                                                                                                                                                                                                                                                                                                                                                                 svc_rpc_h = (unsigned char*) calloc(1,CONNECT_HANDLE_SIZE);
                   :::
                                                                                                                                                                                                                                                                                                                                                                                                                                   ?
                                                                                                                                                                                                                                                                                                                                                                                                                                             :::
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (void)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (void)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (void)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  if ( -1 == lrc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1rc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ;;;;
                                                                                                                                                                                                                                                                                                                                                                                                       (svc_rpc_h == NULL)
                                                                                                                                                                                                                                                                                                                                                                                                                                               is the restore service
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Extract the csc handle
                            Issue message telling of Dispatch Daemon RDR
                                                                                                                                                                    __FILE__,__LINE__,LOG_ERR,DDP_GET_CONNECT_HANDLE_FAILURE.
0,"edmrst_get_client_rpc_handle() failure");
p_so -> setStatus(DD_SERVICE_FAILURE_NONEXEC);
                                                                                                                               pthread_mutex_unlock( &cscPortRdy_mutex)
pthread_exit( NULL );
                                                                                                                                                          UnlockSvcMutex();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               pthread_mutex_unlock( &cscPortRdy_mutex);
pthread_exit( NULL );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Fire up Private Service via EDM-Link API ELinkPrivateSvc. physically starts the private service running.
                                                                                                                                                                                                           EDMDispatch_logent(
                                                                                                                                                                                                                                                                                                                pthread_exit( NULL
                                                                                                                                                                                                                                                                                                                             pthread_mutex_unlock( &cscPortRdy_mutex);
                                                                                                                                                                                                                                                                                                                                          UnlockSvcMutex();
                                                                                                                                                                                                                                                                                                                                                                               EDMDispatch_logent(__FILE_
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      p_so -> setStatus(DD_SERVICE_FAILURE_EXEC);
                                                                                                                                                                                                                        (void) free(svc_rpc_h);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          UnlockSvcMutex();
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (void)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (void)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ELinkDestroyObj( ELinkHandle, TargetObjPtr ELinkDestroyObj( ELinkHandle, UserIdObjPtr ELinkDestroyObj( ELinkHandle, CmdObjPtr );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ELinkPrivateSvc ( ELinkHandle,
                                                                                           setConnectionHandle((void *)svc_rpc_h);
                                                                  getSessionID(&sID);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ELinkDestroyObj( ELinkHandle, TargetObjPtr );
ELinkDestroyObj( ELinkHandle, UserIdObjPtr );
ELinkDestroyObj( ELinkHandle, CmdObjPtr );
                                                                                                                                                                                                                                                                                                                                                      setStatus(DD_SERVICE_FAILURE_NONEXEC);
 EDMDDcr_rstsvc.cc 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DDRSTsvc_init
                                                                                                                                                                                                                                                                                                                                                                  (__FILE__,__LINE___,LOG_ERR,DDP_NO_MEMORY,
0,"calloc() failure");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0, "ELinkPrivateSvc() failure");
                                                                                                                                                                                                                                                                                                                                                                                                                                                (restore API) rpc handle.
                                                                                                                                                                                                                                                                                                                                                                                                                                                            from the shell object. This
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 &ShellHandle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            &fd1,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CmdObjPtr,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TargetObjPtr,
UserIdObjPtr,
                                                                                                                                                                                                                                                                svc_rpc_h );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LINE
                                                                                                                                                                                                                                                                             ShellHandle,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         _,LOG_ERR,DDP_PRIVATE_SVC_FAILURE,
                                                                 // Get Unique Session
                             port number
 Thu Dec 27 11:29:33 2007
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                                                                                                                                                           //
// Create the CCW service handle
//
                                                                                                                                lrc = edmrst_create_ddp_client_connection(fd1,
if ( 0 != lrc )
                                                                                                                                                                                                                                                                                                                                                         lrc = edmrst_send_uid_to_private_svc(fd1,p_so);
                                                                                                                                                                                                                                                                                                                                                                        //
// Send the Unique Session Id
//
                                                                                                                                                                                                                                                                                                                                              if ( 0 != lrc )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      lrc = edmrst_send_chndl_to_private_svc(fd1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ::
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       pthread_cond_signal(&cscPortRdy_cv);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     pthread_mutex_unlock( &cscPortRdy_mutex);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           if ( 0 != lrc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ::
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Inform the restore svc of dispatch protocol details
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Tell the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Unlock Port Rdy mutex so
                                                                                                                                                                                                                                                  p_so -> setStatus(DD_SERVICE_FAILURE_NONEXEC);
                                                                                                                                                                                                                                                                                                                                                                                                                                                               p_so
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (IsDebugOn())
                            p_so -> setStatus
UnlockSvcMutex();
                                                                                           (void) free(svc_rpc_h);
EDMDispatch_logent(
                                                                                                                                                                                                                           pthread_exit( NULL );
                                                                                                                                                                                                                                          UnlockSvcMutex();
                                                                                                                                                                                                                                                                                                         EDMDispatch_logent(
                pthread_exit(
                                                                                                                                                                                                                                                                                                                                                                                                                                       pthread_exit( NULL
                                                                                                                                                                                                                                                                                                                                                                                                                                                      UnlockSvcMutex();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      EDMDispatch_logent
                                                                                                                                                                                                                                                                                                                    (void) free(svc_rpc_h);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (void) free(svc_rpc_h);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           --> setStatus(DD_SERVICE_FAILURE_NONEXEC);
                                         -> setStatus(DD_SERVICE_FAILURE_NONEXEC);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Dispatch
                                                                  _FILE___, _LINE__,LOG_ERR,DDP_CREATE_CLIENT_CONNECTION, 0, "ednrst_create_ddp_client_connection(
  EDMDDcr_rstsvc.cc 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILE_
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DDRSTsvc_init
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                                                                                                                                                                                                                                                                                            FILE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DispatchDaemon_ifspec.portnum);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ___LINE___, LOG_ERR, DDP_CHANNEL_SEND_FAILURE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0, "edmrst_send_chndl_to_private_svc(
                                                                                                                                                                                                                                                                                  0
                                                                                                                                                                                                                                                                           ,"edmrst_send_uid_to_private_svc|
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Protocol Reader Thread
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                                                                                                                                                                                                                                                                                                                                                                                         value
                                                                                                                                                                                                                                                                                             _LINE__,LOG_ERR,DDP_SEND_UID_FAILURE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Reader can
                                                                                                                                                                          so we can respond to messages.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Listen
                                                                                                                                                , nds
   Thu Dec 27 11:29:33 2007
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                                                          failure");
                                                                                                                                                                                                                                                                       failure");
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         etc
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2007 EDMDDcr_rstsvc.cc 10 Page 10 of 16	Thu Dec 27 11:29:33 2007	EDMDDcr_rstsvc.cc 9 Page 9 of 16	Dec 27 11:29:33 2007	Thu Dec
	464 1 return(0); 465)			
he st_ ont pat	1 // Wr. 2 /	<pre>prince(s); pthread_exit(NULL); eturn(NULL);</pre>	1 UnlockSvoMutex 1 pthread_exit(1 return(NULL); }	421 421 422 423
late the connection handle from the server 'if_spec'. IP/PORT are part of the created if_spec structureh = DispatchDaemon_ifspec.connect_handle_p;	444 1 // Isol 445 1 // Isol 446 1 // The 447 1 //	s clean up and set the status to RUNVING.	<u> </u>	415 417 418 419
<pre>and_chndl_to_private_svc(int pipe: lrc=0; lgned char *p_client_h=NULL;</pre>	int edmrst_ auto in auto uni	<pre>(void) free(svc_rpc_h); EDMDispatch_logent(FILE,_LINE,LOG_ERR,DDP_HANDLE_INSERTION_ERROR,</pre>	NNNN NN	409 410 411 412 413 414
Returns: 0 Sucessful -1 Read Failure <0 Read less than exspected	* * * * * * * * * * * * *	fd2; bh, &ShellHandle, &Status);	3 1 1 4 1 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1	403 404 405 406 407 408
	426 /* ==== 427 ** ==== 428 ** Fun 428 ** Des	Insert handle object into Global list. = newHandleSet(&sID,	1 // // // // // // // // // // // // //	396 399 399 400 401 402
:33 2007 edmrst_send_chndl_to_private_svc	Thu Dec 27 11:29	23 2007 DDHSTsvc_init Page 9 of 16	15	T <u>.</u>

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468
                                                                                                                                                                                                                                                                                                                                                 return(0);
 of 16
                                                                                                                                                                                                                                                                                                                                                                                                                                         sizeof(DD_client_session_id));
if ( (sizeof(DD_client_session_id)) != lrc )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         pSessionObj -> getSessionID(&uid);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |auto int lrc=0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1rc =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  // Write the handle to the service
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 int
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    *
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      * *
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                                                                                                                                                                                                                                                                                                                                                                                                           return(-1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Returns:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Description:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Function:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 edmrst_WrChannel(pipeToSvc,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               edmrst_send_uid_to_private_svc
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Read less than exspected
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (void*)&uid,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       so
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       it can contact
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   *pSessionObj)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              * *
                                                                                                                                                                                                                                             error_status_t status;
rpc_if_handle_t *p_psvc_ifspec=NULL;
rpc_binding_handle_t *psvc_h=NULL;
                                                                                     if ( 1 != lrc )
                                                                                                                                                                                                                                                                     //
// Create an ifspec from the handle
//
                                                                                                                                                                                                                                                                                                                                                                                                                                       // We now need to get the details from the restore service on // how to connect from the dispartch daemon ccw to the restore // service ccr. At this point, the restore service will be send · // ing the restore service ccr handle information. The port / ip // are the key information needed to create the ddp ccw handle.
                                                                                                                                                lrc = csc_private_ifspec_init( p_restore_service,
                                                                                                                                                                                                                                  if (p_psvc_ifspec == NULL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           unsigned char *p_restore_service=NULL;
                                                                                                                                                                                                                                                                                                                                                                                                      if ( 0 != lrc
                                                                                                                                                                                                                                                                                                                                                                                                               lrc = edmrst_get_client_handle( pipeToSvc,&p_restore_service );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          int 1rc;
                                                                                                                                                                                   return(-1);
                                                                                                                                                                                                          EDMDispatch_logent(__FILE___
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              return(-1);
                                                    EDMDispatch_logent(
                                                               (void) free(p_psvc_ifspec);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     We now need to get the details from the restore service on
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Returns:
                                                                                                                                                                                                                                                                                                                                        p_so -> setStatus(DD_SERVICE_FAILURE_NONEXEC);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Description:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Function:
                                                                                                                                                                                                                                                                                                                                return(-1);
                                                                                                                                                                                                                                                                                                                                                                              EDMDispatch_logent
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         edmrst_create_ddp_client_connection
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0 Sucessful
-1 Read Failure
<0 Read less than exspected</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    edmrst_create_ddp_client_connection()
   EDMDDcr_rstsvc.cc 12
                                        FILE__,
                                                                                                                                                                                                0, "ifspec calloc() failure");
                          "ILE__,_LINE__,LOG_ERR,DDP_IFSPEC_INIT_FAILURE, status,"csc_private_ifspec_init() Failure");
                                                                                                                                                                                                                                                                                                                                                        ___LINE___,LOG_ERR,DDP_GET_CLIENT_HANDLE,
"edmrst_get_client_handle() failure");
                                                                                                                                                                                                             _LINE__, LOG_ERR, DDP_NO_MEMORY,
                                                                                                              p_psvc_ifspec,
                                                                                                                         EDMDPC_FUNCTIONS,
                                                                                                                                      EDM_DISPATCH_PROTOCOL_CLIENT,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EDMSession
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ( os_q*
    Thu Dec 27 11:29:33 2007
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<pre>(void) memcpy((char*) &DispatchDaemon_ifspec.ip_addr,</pre>	655 1 656 1		l
EDMDispatch_logent(FILE,_LINE,LOG_ERR,DDP_GETHOSTNAME_FAILURE, 0,"gethostbyname() failure"); return -1;			
<pre>uname(&name); f</pre>	646 1 647 1 648 1		-
// We need the system name and ip for the if_spec. //	643 I 644 1		
<pre>csc_status, "csc_async_ifspec_init() Failure"); }</pre>	638 2 639 2 640 1		
<pre>if (TRUE != lrc) { EDMDispatch_logent(</pre>	635 1 636 2 637 2		
<pre>dispatch_func_p_t)&edm_dispatch_protocol_service_1_table,</pre>	632 1		
<pre>lrc = csc_async_ifspec_init (&DispatchDaemon_itspec,</pre>	627 1 628 1 629 1 630 1	return(0);	594 1 ret
<pre>// Initialize the ifspec specification from the private svc // creation call. This call will output the DispatchDaemon_ifspec //</pre>		psvc_h; free(p_psvc_ifspec);	591 1 *bh = 592 1 (void)
	623 1	return(-1);	588 2 589 1 }
if (BlinkHandie == איטיטין) { return -1;	618 1 619 2 620 2	FILE,_LINE,LOG_ERR,DDP_PRIVATE_SVC_CONNECT_FAILURE, status,"csc_connect_to_async_rpc_service(} Failure. Status is %d", status);	N I
inkHandle = ELink		<pre>(void) free(p_psvc_ifspec); (void) free(psvc_h); EDMDispatch_logent(</pre>	N N N
<pre>error_status_t csc_status; int lrc = 0;</pre>	1	1 != lrc)	
		psvc.h, \$c.h, \$c.c.h, \$c.h, \$c.c.h, \$c.c.h, \$c.c.h, \$c.c.h, \$c.c.h, \$c.c.h, \$c.c.h,	
EDMDDSvcInit() {		<pre>= csc_connect_to_async_rpc_service(NULL,</pre>	578 1 1rc
		Using the connect handle (128 bytes) received from the restore service, connect to the restore service.	- سا سا ۱
** Returns: 0 Sucessful ** -1 Read Failure **		<pre>psvc_h = (rpc_binding_handle_t *) calloc(1, sizeof(</pre>	
** Description: **	600 601 602	<pre>0,"PORT_INFO p_psvc_ifspec(DDCCW) port#: %d", p_psvc_ifspec->portnum);</pre>	569 2 570 2 571 1 }
		EDMDispatch_logent(FILE,LINE,LOG_INFO,DDP_PORT_NUMBERS,	567 2 568 2
	597 598	(IsDebugOn())	⊢ 1
THE COMPANY AND A CONTRACT OF THE CONTRACT OF		564 1 }	4 1 195

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16 EDMDDcr_rstsvc.cc 15	return 0;	return -1;		<pre>if (TRUE != 1rc) (EDMDispatch_logent(FILE ,LINE,L</pre>	edm_di edm_di &csc_s	<pre>lrc = csc_register_async_server_interface(</pre>	// // Register the callback functions. //	16 EDMDDSvcinit
Thu Dec 27 11:29:33 2007			<pre>csc_status, "Failed to register asynchronous server interface.");</pre>	OG_ERR,DDP_REGISTER_SVC_FAILURE,	<pre>edm_dispatch_protocol_service_1_table, edm_dispatch_protocol_service_1_nproc, &csc_status);</pre>	rface(tchDaemon_ifspec,		Thu Dec 27 11:29:33 2007
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                                                                                            extern
#endif
                                                                                                                                                            #include
#include
                        #ifdef
                                                #include
                                                           #include <restore/dispatch_protocol_client.h>
                                                                      #include <restore/dispatch_protocol.h>
                                                                                                                #ifdef
                                                                                                                                      #include <rw/collect.h>
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                                                                                                                                                                                                                                                                                                           static
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                                                                                                                                                                                                                                                                                                                      #if !defined(lint)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ** Mission Statement:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       *
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                                                                                                                                                                                                                                        #define _POSIX_SOURCE
#define _XOPEN_SOURCE
                                                                                                                                                                                                                                                                                                                                                                with the what(1) utility.
                                                                                                                                                                                                                                                                                                                                                                          The following provides an RCS id in the binary that can be located
                                                                                                                                                                                                                                                                                                                                                                                                  Basic idea here: Module for Control Channel Writer thread.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EDMDD_ccw.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Copyright 1996, 1997 EMC Corporation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       r __cplusplus
                                                                                                                                                                                                                                                                                                           char
                        __cplusplus
                                                                                                                                                             <csc/cscomm.h>
                                                <restore/csc_Dispatch_Protocol_Client.h>
                                                                                                                                                                      <pthread.h>
                                                                                                                                                                                              <es1/inout.h>
                                                                                                                                                                                                                   <esl/c_portable.h>
                                                                                                                                                                                                        <esl/ep_xopen.h>
                                                                                                                                                                                                                                                                                                            RCS_id
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0n:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             This is the entry point for the Control Channel
                                                                                                                                                                                                                                                                                                           Its
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Dispatch Daemon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       USE_SUNRPC - Compile source with sunrpc
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       main
                                                                                                                                                                                                                                           unable to unable to
                                                                                                                                                                                                                                                                                                             "@(#)$RCSfile: EDMccw.c,V
                                                                                                                                                                                                                                                                                     "$Revision: 1.23 $
"$Date: 1997/02/06
                                                                                                                                                                                                                                                                                                                                                                 The intent is to keep this short.
 EDMDD_ccw.cc 1
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                                                                                                                                                                                                                                           compile with this define set compile with this define set
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Writer thread.
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                                                                                                                                                                                                                                                                                                                                                                     rpc_binding_handle_t *client_h_p=NULL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        static int SendFinalStatsConfirmMessage(
DD_client_session_id*,rpc_binding_handle_t*);
                                                                                                                                                                                                                                                                                                                                                for( ; ; )
                                                                                                                                                                                                                                                                                                                                                                                  DD_client_session_id
                                                                                                                                                                                                                                                                                                                                                                                                         int status=0;
                                                                                                                                                                                                                                                                                                                                                                                                                   int ResponseMessage=0;
                                                                                                                                                                                                                                                                                                                                                                                                                                int rc=0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                     DispDaemon_ccw(void *buf)
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                                                                                                                                                                                                                                                                                                                           Monitor the event queue for messages to send.
                                                                                                                                                                                                                                                                                                                  H
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         int SendPingRequestMessage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 int SendCloseRequestMessage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       int SendAbortRequestMessage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ELinkHandlePtr_ty
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             int SendConnectConfirmMessage(
                                                            (sstatus == DD_SERVICE_FAILURE_NONEXEC || sstatus
                                                                                                                                                                         ((rc != 0) && (ResponseMessage != dp_ping_request))
                                                                                                                                                                                                   H
                                                                                                                                                                                                                                              sleep( DISPATCH_CCW_SLEEP );
                                                                                                                                                                                                                                                                                                                PopResponseMessage(&ResponseMessage,
                                    sstatus == DD_SERVICE_FAILURE_PERMS
                                                                                                                                                                                                                                    continue;
                                                                                               continue;
                                                                                                                                          <EDMDD_ddp.h>
                 (void)
                                                                                                                                                                                                 GetSessionStatus(&sid, &sstatus, &status);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     <EDMDispatchLog.h>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  <logging/logging.h>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Routines
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                EDMDispatch_logent(
                                                                                                                                                                                                                                                                                                                                                                                   sid;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DD_client_session_id*,rpc_binding_handle_t*);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DD_client_session_id*,rpc_binding_handle_t*);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DD_client_session_id*,rpc_binding_handle_t*);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DD_client_session_id*,rpc_binding_handle_t*);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ELinkHandle;
                                                                                                                    "Can't retrieve status for session <%ld:%ld> - drop m
                                                                                                        sid.high, sid.low);
                                                                                                                                                                                                                                                                                             &client_h_p,
     EDMDD_ccw.cc 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DispDaemon_ccw
                                                     日
                                                    _SERVICE_FAILURE_EXEC | |
                  LINE
                                                                                                                                                                                                                                                                                                                                  *
                                                                                                                      drop message.",
                   FOG.
                     INFO
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 N W
                                                                                                                                                                                                                                         } /* End of forever loop */
return((void*)0);
/* End of DispDaemon__ccw() */
                                                                                                                                                                                                                                                                                                                 if (rc != 0)
                                                                                                                                                                                                                                                                               /* Check for a shutdown setting */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /* execute the callback that will process this message switch( ResponseMessage ) \{
                                                                                                                                                                                                                                                                                                     sleep(1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               continue;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  case
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       case
                                                                                                                                                                                                                                                                                                                                                                                               default:
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  EDMDD_ccw.cc 3
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                                                                                                                                                                                                                                                                                                                                                                                                                                               dp_final_stats_confirm:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 dp_ping_request:
    rc = SendPingI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    dp_progress_confirm:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       dp_event_confirm:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    dp_close_request:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       dp_abort_request:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       dp_connect_confirm:
                                                                                                                                                                                                                                                                                                                                                                               EDMDispatch_logent(
                                                                                                                                                                                                                                                                                                                                                                                                           break;
                                                                                                                                                                                                                                                                                                                                                                                                                                    rc = SendFinalStatsConfirmMessage(
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                            break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      rc = SendCloseRequestMessage(
                                                                                                                                                                                                                                                                                                                                                          _FILE__,_LINE__,LOG_ERR,DDP_INVALID_
O,"Invalid message type received.");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        // No confirm needed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            rc = SendAbortRequestMessage(
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              rc = SendConnectConfirmMessage(
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             // No confirm needed for this message
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "Session <%ld:%ld> failed to start - drop
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             sid.high, sid.low);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DDP_DROP_MESSAGE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SendPingRequestMessage(&sid, client_h_p);
                                                                                                                                                                                                                                                                                                                                                                        LINE
                                                                                                                                                                                                                                                                                                                                                                        _,LOG_ERR,DDP_INVALID_MESSAGE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         for this message
  Thu Dec 27 11:30:02 2007
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 &sid, client_h_p);
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                                                                                                                                                                                                                                                                                                                                                                                                                          &sid, client_h_p);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          &sid, client_h_p);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 &sid, client_h_p);
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ::::
                                                                                                                                                                                                                                                                                                                                                                                        else
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        if (clnt_p != NULL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DP_connect_confirm_msg *msg_p=NULL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 int *rc = NULL;
int lrc = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      int savedlrc = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               int sstatus = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         int status = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Function: SendConnectConfirmMessage()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Description:
                                                                                            if (0 != lrc)
{
                                                                                                                                                                                                                                                                       μ÷
                                                                                                                                                                                                                                                                                                                                                             rpc_binding_handle_t *client_handle_p = NULL;
                                                                                                                                                        lrc = PushResponseMessage((int) dp_connect_confirm,
                                                                                                                                                                                                                                                                                                                        lrc = GetCSCHandle(ssid,
                                                                                                                                                                    \prime^* Push message to send onto the queue ^*\prime
                                                                                                                                                                                                                                                                                                                                    /* Get the csc\_binding\_handle associated with this sid */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  msg_p->sid.high = ssid->high;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            msg_p = (DP_connect_confirm_msg*)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             rc = dp_connect_confirm_1(msg_p,*clnt_p);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        msg_p->sid.low = ssid->low;
                                                                                                                                                                                                                                                                                                                                                                                                                  free( msg_p );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      if (IsDebugOn())
                                                                                                                                                                                                                                                                       (0 != lrc)
                                                                                                                                                                                                                                _FILE__,_LINE__, LOG_ERR, DDP_GET_CSC_HANDLE_FAILURE, status,
                                                                                                                                                                                                          savedlrc = lrc;
                                                                                                                                                                                                                                              EDMDispatch_logent(
                                          savedlrc = lrc;
                                                                              EDMDispatch_logent(
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        dispatch daemon.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Send the confirm connect message to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILE__,_LINE__,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DD_client_session_id *ssid, rpc_binding_handle_t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                calloc(1, sizeof(DP_connect_confirm_msg));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SendConnectConfirmMessage
    EDMDD_ccw.cc 4
                                                                                                                                                                                                                                                                                                   &status );
                                                                                                                                                                                                                                                                                                               &client_handle_p,
                                                                                                                                                                                                                      "GetCSCHandle failed.");
                                                                    LOG_ERR, DDP_PUT_RESPONSE_FAILURE, status,
                                                                                                                                 client_handle_p,
                                                    "PushResponseMessage failed.");
                                                                                                                     &status);
                                                                                                                                               *SSIG
                                                                                                                                                                                                                                                                                                                                                                                                                                                "Sending dp_connect_confirm_1 message."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      the
   Thu Dec 27 11:30:02 2007
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Thu Dec 27 11:30:02 2007
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         *clnt_p )
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	27 44-90-72 2007					
EDMDispatch_logent{ FILE,_LINE, LOG_INFO,	{ (void) EDM } free(msg_p); return(0); }	247 2 248 2 250 2 250 1 1 253 1 255 1 255 1				
<pre>msg_p = (DP_abort_request_msg*) calloc(1, sizeof(DP_abort_request_msg)); msg_p->sid.high = ssid->high; msg_p->sid.low = ssid->low; rc = dp_abort_request_1(msg_p,*clnt_p); if (IsDebugon())</pre>	<pre>msg_p = (DP_abox calloc(1 msg_p->sid.high msg_p->sid.low rc = dp_abort_re if (IsDebugon())</pre>	240 1 241 1 242 1 243 1 244 1 246 1				
<pre>static int SendAbortRequestMessage(</pre>	<pre>static int SendAbortReque DI { int *rc; DP_abort_rec</pre>	234 235 236 1 237 1 238 1			}	
tion: SendAbortRequestMessage() ription: Send a abort request to a restore service.	// Function: Se // Description: // Send a	230 231 232 232 233			<pre>return lrc; } return(0);</pre>	223 2 224 1 226 1
	``	229			<pre>lrc = savedlrc;</pre>	221 2
SenoAportneduestwessage rage ou zo	Thu Dec 27 11:30:02 2007	Thu De	Page 5 of 28	SendConnectConfirmMessage		⊣ റ്

Page 7	261 1 282 1 283	274 1 275 2 276 2 277 2 278 2 279 1	268 1 269 1 270 1 271 1 272 1	264 1 265 1 266 1	257 258 259 260 261 261 262 263	Page
7 of 28 EDMDD_ccw.cc 7 Thu Dec 27 11:30:02 2007	<pre>free(msg_p); return(0); }</pre>	<pre>if (IsDebugOn()) { (void) EDMDispatch_logent(FILE,LINE, LOG_INFO,</pre>	<pre>msg_p = (DP_close_request_msg*) calloc(1, sizeof(DP_close_request_msg)); msg_p->sid.high = ssid->high; msg_p->sid.low = ssid->low; rc = dp_close_request_1(msg_p,*clnt_p);</pre>	<pre>1 { int *rc; DP_close_request_msg *msg_p=NULL; }</pre>	<pre>// // Function: SendCloseRequestMessage() // Description: // Send a close request to a restore service. // static int static int DD_client_session_id *ssid, rpc_binding_handle_t *clnt_p)</pre>	Page 7 of 28 SendCloseRequestMessage Thu Dec 27 11:30:02 2007
Page	311 310 310	302 303 304 305 306 307	296 297 298 299 300	293 293 294		
e 8 of 28 EDMDD_ccw.cc 8 Thu Dec 27 11:30:02 2007	<pre>1</pre>	sDebug	<pre>1 msg_p = (DP_ping_request_msg*) 1</pre>	, id id		Page 8 of 28 SendPingRequestMessage Thu Dec 27 11:30:02 2007

Page 10 of 28	EDMDD_ccw.cc 10	Thu Dec 27 11:30:02 2007	11:30:02 2007 EDMDD_ccw.cc 9 Page 9 of 28	Thu Dec 27
			<pre>ret = deleteHandleSet(ssid, &ELinkHandle, &status); if (ret == -1) { (void) EDMDispatch_logent(FILE,_LINE, LOG_ERR,</pre>	367 1 368 1 369 2 370 2 371 2 372 2
			<pre>f (out != -1 && err != -1) close(out); close(err);</pre>	359 1 } 361 1 if 362 2 { 363 2 364 2 365 1 }
			<pre>ret = getHandleSet(ssid, &out, &err, &status); if (ret == -1) { (void) EDMDispatch_logent(FILE, _LINE, LOG_ERR,</pre>	22221
			<pre>ret = removeSession(ssid, &status); if (ret == -1) { (void) EDMDispatch_logent(FILE,LINE, LOG_ERR,</pre>	- 88885
			} free(msg_p);	340 2 342 2 343 1 }
			<pre>if (IsDebugOn()) { (void) EDMDispatch_logent(FILE,LINE, LOG_INFO,</pre>	335 2 336 3 337 3 338 3 339 3
			<pre>if (clnt_p != NULL) { msg_p = (DP_final_stats_confirm_msg*) calloc(1, sizeof(DP_final_stats_confirm_msg)); msg_p->sid.high = ssid->high; msg_p->sid.low = ssid->low; rc = dp_final_stats_confirm_1(msg_p,*clnt_p);</pre>	327 1 328 2 329 2 330 2 331 2 332 2 333 2
			<pre>static int SendFinalStatsConfirmMessage(DD_client_session_id *ssid, rpc_binding_handle_t *clnt_p) { int status, *rc; int out = -1, err = -1; int ret = 0; rpc_binding_handle_t *ptr; rpc_bindl_stats_confirm_msg *msg_p=NULL;</pre>	318 319 320 1 321 1 322 1 322 1 323 1 324 1 325 1
		373 1 } 375 1 return(0); 376 }	// Punction: SendFinalStatsConfirmMessage() // Description: // Send a ping request to a restore service.	
Page 10 of 28	SendFinalStatsConfirmMessage	Thu Dec 27 11:30:02 2007	Thu Dec 27 11:30:02 2007 SendFinalStatsConfirmMessage Page 9 of 28	Thu Dec

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EDMDD_ccw.cc 11	
Thu Dec 27 11:30:02 2007	Thu Dec 27 11:30:02 2007
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28 EDMDD_ccw.cc 12	28
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21
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23
                                                                                                 #include
#include
                                                                static void halt_service(int);
static boolean32 print_error =
                               extern pthread_cond_t cscPortRdy_cv;
extern pthread_mutex_t cscPortRdy_mutex;
             void *
                                                                                                                     #include
                                                                                                                                #include
                                                                                                                                           #include
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ** Compile-Time Options:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ** Copyright 1996,1997 EMC Corporation
                                                                                                                                                                                                                          #define _POSIX_SOURCE
#define _XOPEN_SOURCE
                                                                                                                                                                                                                                                                                                                                             The following provides an RCS id in the binary that can be with the what(1) utility. The intent is to keep this short
                                                                                                                                                                                                                                                                                                                                                                                Basic idea here: Module
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Primary Data Acted
                                                                                                                                                                                                                                                                                                                                                                                                                         Mission Statement: This is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        <csc/cscomm.h>
                                                                                                                     <EDMDD_ccr.h>
                                                                                                                                <EDMDD_ddp.h>
                                                                                                                                         <logging/logging.h>
                                                                                                                                                     <pthread.h>
                                                                                                                                                                         <es1/inout.h>
                                                                                                                                                                                  <esl/ep_xopen.h>
                                                                                                                                                                                                         <signal.h>
                                                                                                 <EDMDispatchLog.h>
                                                                                                                                                                                              <es1/c_portable.h>
                                                                                                                                                                                                                                                                     0n:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            messages
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unable
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                                                                                                                                                                                                                                                                                                                                                The intent is to keep this short.
EDMDD_ccr.cc 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             // Wait
                                                                                                                                                                                                                                                                                                 * *
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             pthread_cond_wait(&cscPortRdy_cv, &cscPortRdy_mutex);
pthread_mutex_unlock( &cscPortRdy_mutex);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                * *
* *
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 pthread_mutex_lock( &cscPortRdy_mutex );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DispDaemon_ccr (void *buff)
                                                                                                                                                                                                                  lrc = csc_unregister_async_server_interface(&if_spec, &status);
EDMDispatch_logent(__FILE__,__LINE__,LOG_INFO,DDP_UNREGISTER_SVC,
                                                                                                                                                                                                return((void*)0);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          for(;;)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             error_status_t
rpc_if_handle_t
                                                                                                                                                                                                                                                               struct esl_timeval timeout = (5,0);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      int lrc=0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Let begin to listen for requests.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Unregister our service upon exit request.
                                                                                                                                                                                                                                                                                                                               \*
                                                                                                                                                                                                                                                                                                                                                                                                                                                          lrc = csc_async_server_listen( (esl_timeval*)&timeout, &status);
if ( 1 != lrc )
                                                                                                                                                                                                                                                                                                                                                                                             if ( 1
                                                                                                                                                                                                                                                                                                                                                                         EDMDispatch_logent(
                                                                                                                                                                                                                                                                                                                                                                                                                                       EDMDispatch_logent(
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       for transient thread
                                                                                                                                                                                                                                                                                                                               End of while loop */
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H
                                                                                                                                                                                                                                                                                                                                                                                               1rc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        status;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              if_spec;
                                                                                                                                                                                                          0, "Returned from unregister service.");
                                                                                                                                                                                                                                                                                                                                                    0, "listen() timedout.");
                                                                                                                                                                                                                                                                                                                                                                                                                   __FILE__,__LINE__,LOG_ERR,DDP_FAILED_LISTEN.
0,"Bad returned from listen.");
                                                                                                                                                                                                                                                                                                                                                                FILE__,_LINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       to tell me there is somthing to listen on.
EDMDD_ccr.cc 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DispDaemon_ccr
                                                                                                                                                                                                                                                                                                                                                               __, LOG_INFO, DDP_LISTEN_TIMEOUT
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EDMDD_ccr.cc 4	
Thu Dec 27 11:30:02 2007	Thu Dec 27 11:30:02 2007

EDMDDHandle::EDMDDHandle(#include <stdlib.h> // Rogue Wave includes #include <rw rwfile.h=""> #include <rw rwfile.h=""> #include <csc cscomm.h=""> #include <csc cscomm.h=""> #include <csc cscomm.h=""> #include <csc cscomm.h=""> #include <csc cscomm.h=""> #include <csc cscomm.h=""> #include <csc cscomm.h=""> #include <csc cscomm.h=""> #include <csc cscomm.h=""> #include <csc cscomm.h=""> #include <csc cscomm.h=""> #include <csc dispatch_daemon.h=""> #include <cscbmddhandle.h> // 413 is the object ID. RWDEFINE_COLLECTABLE(EDWDDHandle, EDMDDHANDLE) *** Routine: EDMDDHandle constructor *** Routine: EDMDDHandle constructor *** Return Codes:</cscbmddhandle.h></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></csc></rw></rw></stdlib.h>
EDMDDHandle::EDMDDHandle(IN rpc_binding_handle_t *bh, IN DD_client_session_i. IN rpc_binding_handle_t *bh, IN DD_client_session_i. IN int stdoutpipe, IN int stderrpipe) f rpcBD = bh; stdoutpipe = stdoutpipe; if (sess != NULL) if (sess != NULL) memcpy(&sessionID, sess, sizeof(DD_client_session_id)) /**********************************	<pre>wave includes </pre> <pre><rw collect.h=""> <rw rwfile.h=""> <rr></rr><rw rwfile.h=""> </rw></rw></rw></pre> <pre><csc cscomm.h=""> <csc cscomm.h=""> <csc cscomm.h=""> <cpdnlink edmlink_api.h=""> </cpdnlink></csc></csc></csc></pre> <pre><restore restoreobjectid.h=""> <restore restoreobjectid.h=""> <pre><cpnddhandle.h> </cpnddhandle.h></pre> <pre> <pre><pre><pre></pre> <pre></pre> <pre></pre> <pre> <pre></pre> <pre> <pre>I for rougue wave linked list manager. <pre></pre> <pre><pre><pre></pre> <pre></pre> <pre> <pre></pre> <pre> <pre></pre> <pre> <pre></pre> <pre> <pre></pre> <pre></pre> <pre></pre> <pre> <pre></pre> <pre> <pre></pre> <pre> <pre></pre> <pre> <pre></pre> <pre></pre> <pre> <pre> <pre></pre> <pre> <pre> <pre></pre> <pre> <pre> <pre></pre> <pre> <pre> <pre></pre> <pre> <pre></pre> <pre> <pre> <pre> <pre></pre> <pre> <pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></restore></restore></pre>
#/ EDMDDHandle::EDMDDHandle(<pre> Astdlib.h> Astdlib.h Astdl</pre>
######################################	<pre>wave includes <rw rwfllect.h=""> <rw rwfile.h=""> <rw rwfile.h=""> <csc cscomm.h=""> <cedmlink edmlink_api.h=""> <restore restoreobjectid.h=""> <restore dispatch_daemon.h=""> <edmddhandle.h> </edmddhandle.h></restore></restore></cedmlink></csc></rw></rw></rw></pre> # for rougue wave linked list manager. # the object ID. COLLECTABLE(EDMDDHandle, EDMDDHANDLE) ###################################
EDMDDHandle::EDMDDHandle(IN rpc_binding_handle_t *bh, IN DD_client_session_ IN int stdoutpipe, IN int stderrpipe) 10	<pre>Astdlib.h> Astdlib.h> Astdlib.h> Astdlib.h> Astw/collect.h> Astw/collect.h> Astw/rwfile.h> Astw/rwfile.h> Astroxe/Cscomm.h> Astroxe/RestoreObjectID. Arestore/dispatch_daemon. Astroxe/Astroxe wave linked l the object ID. COLLECTABLE (EDMDDHandle, COLLECTABLE (EDMDDHandle, Astroxed Street DD Collectable) Astroxed Street DD Collectable Astroxed Street DD Collectable Astroxed Street DD Collectable Astroxed Street Astroxed Str</pre>
EDMDDHandle::EDMDDHandle(IN rpc_binding_handle_t *bh, IN DD_client_session_ IN int stdoutpipe, IN int stderrpipe) 10 1	<pre>wave includes </pre> <pre> /**/collect.h> </pre> <pre> /**/collect.h> </pre> <pre> /**/csc/cscomm.h> </pre> <pre> /***/vstream.h> </pre> <pre> /************************************</pre>
EDMDDHandle::EDMDDHandle(y5 EDMDDHandle::EDMDDHandle(IN rpc_binding_handle_t *bh, IN DD_client_session. IN int stdoutpipe, IN int stderrpipe) y7 y8 y7 y8 y8 y8 y8 y8 y8 y8	<pre></pre>
EDMDDHandle::EDMDDHandle(IN rpc_binding_handle_t *bh, IN DD_client_session_ IN int stdoutpipe, IN int stderrpipe) FrocBD = bh; StdoutPipe = stdoutpipe; In int stdoutpipe; In int stdoutpipe, IN int stderrpipe) FrocBD = bh; StderrPipe = stderrpipe; In if (sess != NULL) In memcpy(&sessionID, sess, sizeof(DD_client_session_ In if (sess != NULL) In if (sess != NUL	<pre></pre>
EDMDDHandle::EDMDDHandle(ys EDMDDHandle::EDMDDHandle(<pre></pre>
EDMDDHandle::EDMDDHandle(IN rpc_binding_handle_t *bh, IN DD_client_sessi. IN int stdoutpipe, IN int stderrpipe) 10 1	<pre></pre>
EDMDDHandle::EDMDDHandle(IN rpc_binding_handle_t *bh, IN DD_client_sessi. IN int stdoutpipe, IN int stderrpipe) rpcBD = bh; stdoutPipe = stdoutpipe; stderrPipe = stderrpipe; if (sess != NULL) nemcpy(&sessionID, sess, sizeof(DD_client_session_ memcpy(&sessionID, sess, sizeof(DD_client_session_ *** *** *** *** *** *** *** *	<pre></pre>
EDMDDHandle::EDMDDHandle(IN rpc_binding_handle_t *bh, IN DD_client_session_ IN int stdoutpipe, IN int stderrpipe) (rpcBD = bh; stdoutPipe = stdoutpipe; stderrPipe = stderrpipe; if (sess != NULL) nemcpy(&sessionID, sess, sizeof(DD_client_session_ /***********************************	<pre></pre>
EDMDDHandle::EDMDDHandle(<pre> Astdlib.h> Astdlib.h> Astdlib.h> Astdlib.h> Astw/collect.h> Astw/collect.h> Astw/collect.h> Astw/collect.h> Astw/collect.h> Astw/collect.h> Astw/collect.h> Astw/collect.h> Astw/collect.doine.h> Astw/collect.h> Astw/collect.h> Astw/collect.h> Astw/collect.doine.h> Astw/collect.doine.h> Astw/collect.doine.h> Astw/collect.doine.doine.h> Astw/collect.doine.doine.doine.h> Astw/collect.doine.d</pre>
<pre>EDMDDHandle::EDMDDHandle(</pre>	<pre></pre>
<pre>#/ EDMDDHandle::EDMDDHandle(</pre>	
<pre>#/ EDMDDHandle::EDMDDHandle(</pre>	
<pre>#/ EDMDDHandle::EDMDDHandle(</pre>	
*/ EDMDDHandle::EDMDDHandle(IN rpc_binding_handle_t *bh, IN DD_client_session_id IN int stdoutpipe, IN int stderrpipe)	
*/ EDMDDHandle::EDMDDHandle(TN roc hinding handle t *bh. IN DD client session_id	
	<stdl< td=""></stdl<>
7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1	# HICHOCO VOCE HIS III
	#include Certing hy
	<es1 inc<="" td=""></es1>
Return Coo	#include <es1 c_portable.h=""> #include <es1 ep="" xopen.h=""></es1></es1>
	#endif
84	"\$Date: 1997/02/
83 ** DD_client_session_id	ic char RCS_id [] = "@(#)\$RCSfile: EDMDDHandle.c "\$Revision: 1.0 \$ "
81 ** int stdoutpipe - the stdout descriptor	
** dispatch prot	*/
orus a '8 ** Inputs: rpc_binding_handle_t bh - the client handle to use for	* set of handles for each running service.
7)	Basic idea here:
76 **	* Compile-Time Options:
75	* Primary Data Acted On:
<pre>methods</pre>	* Mission Statement: file that contains the Handle class me
stderrPipe = 0;	
1 rpcBD = NULL 1 shellHd = NU 1 stdoutPipe =	/* FDMDDHandle CC
65 EDMDDHandle::EDMDDHandle() 66 1 (** Copyright 1996,1997 EMC Corporation
reger riverse see	1 /*

28 EDMDDHandle.cc 4 Thu Dec 27 11:30:02 2007	Page 20 of 28		T BA T
orchars: worke	245	if (localhandle -> sessionID.high == sessionID.high &&	
Inputs:		<pre>if (localhandle == NULL) return FALSE;</pre>	181 1 182 1
Routine: saveGuts		EDMDDHandle *localhandle = (EDMDDHandle *) c;	178 1 179 1
*** *** *** *** *** *** *** ** ** ** **	238 /*	RwBoolean EDMDDHandle::isEqual(IN const RwCollectable *c) const	176 177
; ; ; ; ; ; ;		*/	174
// Left as an example	235 1	*************************************	173
<pre>// Save parent class data too RWCollectable::saveGuts(f);</pre>	232 1 233 1	** Purpose: Compare session IDs to find which session needs service.	171
ОНа	230 EI 231 1 {	** Return Codes: ** RWBoolean - TRUE or FALSE **	168
*/		** Outputs: None	166
*************************************		** Inputs: RWCollectable *c - a pointer to the base class type which ** you can then cast and compare. **	163
Purpose: Save class internal data to a file.			161
Return Codes: None	221 **	***************************************	159
Outputs: None	219 **		157
Inputs:	210 217 ** 218 **	(localhandle -> localhandle ->	
Routine: saveGuts	·	ndle -> sessionID.high > sessionID.high	
***	213 /:	<pre>if (localhandle -> sessionID.high == sessionID.high && localhandle -> sessionID.low == sessionID.low)</pre>	151 1 152 1
专业专业的工作 化苯基苯甲苯苯甲苯苯甲苯苯甲苯甲苯甲苯甲苯甲苯甲苯甲苯甲苯甲甲甲甲甲甲甲甲甲甲		return -1;	149 1
return (unsigned) sessionID.low;	210 1	ndle == NULL)	
EDMDDHandle::hash() const	_	EDMDDHandle *localhandle = (EDMDDHandle *) c;	145 1
unsigned	207 un	int EDMDDHandle::compareTo(IN const RWCollectable *c) const	143 144
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		*	141
*************************************		*****	
Purpose: Returns unique value, in this case auxproc pid.		这是原外的外外的原始的原始的原始的原始的原始的原始的原始的原始的原始的原始的原始的原始的原始的	139 140
	200 **	** Purpose: Compare using the auxproc PID.	137
Return Codes:	198 **	9	136
Outputs: None	196 **	** Return Codes:	134
Inputs: None		** Outputs: None	132
Routine: hash		Inputs: KWCollectable to a Pointer to the cast and compare.	130 131
***************************************	191 /*	Routine: compareTo	127 128 129
法核核核核核核核核核核核核核核核核核核核核核核核核核核核核核核核核核核核核核	189	**	· :
return FALSE;		,是是我们的人,我们的人,我们的人,我们的人,我们的人,我们的人,我们的人,我们的人,	126
	185 1 186 1		123 1 124
11	age so of so	90128	Page 19 of 28

	1	97 11:30:09 2007 EDMDDHandle on 5	Thu Dec 9
** Inputs: DD_client_session_id ID - the session ID associated with	364	*/	,*
** ROUTINE: SetSessioniu	362		
	361	ጜ፞ዹጜጜጜጜጜጜጜጜጜጜጜጜጜጜጜጜጜጜጜጜጜጜጜጜጜጜጜጜጜጜጜጜጜጜጜ	+ +
		from the passed in stream.	*
/年安米等的外班的 医克朗氏试验检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检检	360	** Purpose: Restores an instance of the Handle class by reading the	*
			*
return sessionID;	357 1		*
EDMDDHandle::getSessionID()		** 80*1170 70000.	* *
DD_client_session_id	354	** Outputs: None	* *
	352	** inputs: KWVistream strm - stream to read internal data irom. **	* *
*******			*
***************************************	351	** Routine: restoreGuts	* *
** Purpose: Returns the ID of the session the object belongs to.	349	***************************************	
	348	· 《	
** Return Codes: **	346		287 }
, , , , , , , , , , , , , , , , , , ,	345	// Left as an example	
** Oitpiits. None	343	ole::res	284 1
** Inputs: None	342	// Restore parent data too	
** Routine: getSessionID	339 340 341	void EDMDDHandle::restoreGuts(IN RWFile &f)	
	0	*/	278
· 外军中军车车车车车车车车车车车车车车车车车车车车车车车车车车车车车车车车车车车	 	***************************************	
return count;	335 1		276 *
RWspace count = RWCollectable::binaryStoreSize();	334 1	** from the passed in file.	
EDMDDHandle::binaryStoreSize() const		Purpose: Restores an instance of the Handle class by reading t	274 *
RWspace	331	** * None	
*/	329	* Return Coc	
***	i	** Outputs: None	269
· 不不断非常不知识的不知识的不知识的,我们们的,我们们的人们的,我们们的人们的,我们们的人们的人们的人们的人们的人们的人,我们们们的人们的人们的人们的人们的人们的人们的人们的人们的人们的人们的人们的	327 328	*	
** Purpose: Returns the size of class if it were stored on disk.	326	** Inputs: RWFile f - file to read internal data from.	266 * 267 *
	325	** Routine: restoreGuts	
** Return Codes: ** RWspace count - file size of class written to disk in hytes	323 324	***	
	322	/棒水水水水外水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水	263 //
** Outputs: None	320 321		261)
** Inputs: None	319	// Left as an example	-
** Routine: binaryStoreSize	317	// Save parenc class data too RWCollectable::saveGuts(strm);	257 1 258 1
	315	DHandle::saveGuts(IN RWvo	سر .
•		void	

	309 1 310 1	************	250 / 251 /
{	308 1	** Purpose: Save class data to a stream.	249
void	306	** Return Codes: ** None	246
ing poor 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1110	110000000000000000000000000000000000000	

465 *** Purpose 466 *** Purpose 467 *** 468 *********** 469 */ 469 */ 471 Void 471 EDMDDHandl 473 1 { Shelli 475 } } 477 /***********************************	None Sets the binding handle of the session the object belong to *********************************
465 ** Purpose: 466 ** Purpose: 467 ** 468 *********** 469 */ 471 void 472 EDMDDHandle: 473 1 { 474 1 } 475 } 477 /***********************************	None Purpose: Sets the binding handle of the session the object
465 466 467 468 468 469 469 471 472 EDMDDHandle::setShellHandle(ELinkShell arguments) 473 1 { 474 1 ShellHd = *bh;	$egin{array}{lll} None & & & & & & & & & & & & & & & & & & &$
465 465 466 ** Purpose: Sets the shell handle of 467 471 473 474 1 ShellHd = *bh;	
465 ** Purpose: Sets the shell handle of 467 ** 468 ************************************	
465 ** Purpose: Sets the shell handle of 467 ** 468 *** ****************************	** Return Codes:
465 ** Purpose: Sets the shell handle of 467 ** 468 ************************************	** Outputs: None
465 ** Purpose: Sets the shell handle of 467 ** 468 ** Purpose: Sets the shell handle of	***************************************
465 ** Purpose: Sets the shell handle of 467 ** 468 ************************************	service
466 ** Purpose: Sets the shell handle of the session the object belong	** Inputs: rpc_binding_handle_t *bh - the binding handle to use for this
464 ** None 465 **	** Routine: setBindingHandle
4 × × ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	** **
***	★米米米米米米米米米米米米米米米米米米米米米米米米米米米米米米米米米米米米
462 **	
461 ** Outputs: None	return rpcBD;
75.50 ** ** **	
	<pre>rpc_binding_handle_t * EDMDDHandle::qetBindingHandle()</pre>
+ + + +	~~
456 ** Routine: setShellHandle	
**	《李子子》》: 《宋·宋·宋·宋·宋·宋·宋·宋·宋·宋·宋·宋·宋·宋·宋·宋·宋·宋·宋·
45.4	** protocol.
452 }	CHE DIMITIFY HOUSE TOT THE CULTURE FOR
450 1 { return &shellHd	
	** side of the dispatch protocol
448 ELinkShe	** rpc_binding_handle_t rpcBD - the binding handle for the
446 */	** Batirn Codes:
安全水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水	** Outputs: None
7 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	** Inputs: None
** protocol.	vouctite.
442 ** Purpose: Returns the shell handle for the client side of the dispatch	** ** ** ** ** ** ** ** ** **
440 ** side of the dispatch proto	3 3 3 3 3
439	《李····································
438 ** Return Codes:	
0212020	1 { sessionID = ID;
435 ** Outpute: None	
	void
432 ** KOUCINE: GECSHEITHANDLE	*/
431 **	
430	*************************************
A2A /原子环状不水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水	** Purpose: Sets the ID of the session the object belongs to.
$\begin{cases} 427 & \text{rpcBD} = \text{bn}; \\ 428 & \end{cases}$	
	** Return Codes:
424 void EDMDDHandle::setBindingHandle(rpc_binding_handle_t *bh)	** Outputs: None
422 */	** this object
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				12
			<pre>int EDMDDHandle::getStderrPipe()</pre>	537 i
			*/	7.7.7 7.7.7
			***************************************	534
			** Purpose: Returns the stderr descriptor of the service.	
			** inc scderreipe - che scderr descriptor of the service	
			Return Codes:	
			** Outputs: None	
			** Inputs: None **	
			** Routine: getStderrPipe	523 *
			**	
				521 /
			<pre>stdoutPipe = handle; }</pre>	518 1
				н
			<pre>void EDMDDHandle::setStdoutPipe(int handle)</pre>	516 E
			*/	513

			THE COURT CASE OF THE CASE OF	51.1
			** Parmose: Sets the stdout handle of the private service.	
			Return Coc	
			** Ourbars: wome	
				504
			** Inputs: int handle - the stdout handle of the private service	
		563 }		
	stderrPipe = handle;	μ.	** Routine: setStdoutPipe	500
	EDMDDHandle::setStderrPipe(int nanure) {		*****	7
	void		· 清水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水	
	*/	557	TOCHET SCHOOL TECH	
* * * *		556	מיתיים מיתים מיתיים מיתיים מיתיים מיתיים מיתיים מיתים מיתים מיתיים מיתיים מיתיים מיתים מיתיים מיתים מיתיים מיתים מ	- 1
*********	f f		EDMDDHandle::getStdoutPipe()	
	** Purpose: Sets the stderr handle of the service.	554	int	493
	** None		*/	491
	** Return Codes:	155		450
	** Outputs: None		· ************************************	489
	TATE OF THE PROPERTY OF THE PR		** Purpose: Returns the stdout handle of the service.	488
service	** Invite: int handle - the stderr handle of the ser	546	** int stdoutFD - the stdout descriptor of the service	486
	** Routine: setStderrPipe		Return Codes:	485
*****	**		** Outputs: None	483
*****	一种水泥冰水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水	543		482
			** Troute. None	480
	return stderrPipe;	540 1	getStdoutPipe	479
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Thu Dec 27 1	63 static	60 int	56 // T 57 // 9 58 // S	51	46 // h 47 // 6 48 // 7 49 // 0		::	38 #inc	33 #inc 34 #inc 35 #inc 36 #inc	29 #ino 30 #ino 31 #ino	25 26 27 #endif	23 #if !do	20 *	19 *	17 *	* >	+ +	112 * *	10 *	98,	1 6 * *		2 1	4
11:38:18 2007	ic pthread_mutex_t	highStdout = 0, highStderr = 0;	These are values for given set. Keep in select on the higher	<pre>stdoutSetModified, stdoutSet, stderrSetModified, stderrSet;</pre>	sets are thers and ws the n	static RWBinaryTree G // These are the fd_so	The tree that we keep Rogue Wave object but	#include <edmddhandlemgrapi.h></edmddhandlemgrapi.h>	<pre>#include <stdlib.h> #include <sys types.h=""> #include <sys time.h=""> #include <pthread.h></pthread.h></sys></sys></stdlib.h></pre>	<pre>#include <es1 c_portable.h=""> #include <es1 ep_xopen.h=""> #include <es1 inout.h=""></es1></es1></es1></pre>	ti fi	!defined(lint) tic char RCS_id				basic idea nere:		Compile-Time Ontions:	Primary Data Acted	Mission Statement:	EDMDDHandleMgrApi.cc		Copyright 1996,1997	
EDMDDHandleMgrApi.cc 1	<pre>G_fdSetMtx = PTHREAD_MUTEX_INITIALIZER; G_handleTreeMtx = PTHREAD_MUTEX_INITIALIZER;</pre>		values for the highest number handle that is Keep in mind that 1 has to be added to this the highest handle used.	lfied,	time new handles are copies given to the u copies from 1 thread handles from 2 thread landther the contract of	user.	handles in. We could have used I decided to use the tree.	ιρi.h>	V	ble.h> n.h> >	"\$Date: 1997/02/06 20:49:15:	d [] = "@(#)\$RCSfile: EDMDDHandleMgrApi.cc,V	a mutex to make sure access is se	Each time an fd_set is modified or used we	multineed access to the handles to do IO.	This API manages the handle sets.		2P.s.:	On:	: An API to manage the handle sets/objects	.cc		97 EMC Corporation	والمساورة المساورة المساورة والمساورة والمساور
Page 1 of 16	TIALIZER; X_INITIALIZER;		s part of a s number to		added !ser: !d without !read.	The	any				: :	rApi.cc,v \$ "	is serialized.	r used we lock	Multiple threads lo IO.					/objects				
Thu Dec 2											90 1		85 1 1 C		80			76				5 6 6		-
27 11:38:18 2007											pthread_mutex	FD_ZERO(&stderrSetMo FD_ZERO(&stderrSet);	FD_ZERO(&std	static void initFdSets()	*/		****	** Purpose: In	** Return Codes: ** Non	Outputs:	Inputs:	Routine:	* ** ** ** ** ** ** ** ** ** ** ** ** *	
EDMDDHandleMgrApi.cc 2											x_init(&G_fdSetMtx, NULL);	errSetModified); errSet);	<pre>FD_ZERO(&stdoutSetModified); FD_ZERO(&stdoutSet);</pre>				* * * * * * * * * * * * * * * * * * * *	Initialize fd sets and mutex.	es: None	None	None	initFdSets	*************************************	***************************************
i.cc 2																	******						***************************************	******

Page	Page 93 94 95 96 97 98 100 101 102 103 104 1107 1107 1110 1111 1112 1114 1115 1116 1117 1118
Page 3 of 16 EDMDDHandleMgrApi.cc 3 Thu Dec 27 11:38:18 2007	Page 3 of 16 LockHandleMutex 94 ** 95 ** Routine: LockHandleMutex 96 ** Inputs: None 97 ** Outputs: None 98 ** 100 ** Return Codes: 101 ** 102 ** 103 ** 104 ** Purpose: Lock the mutex for the handle tree object 105 ** 106 ** 107 */ 108 ** 109 ** 100 ** 100 ** 100 ** 100 ** 100 ** 101 ** 101 ** 102 ** 103 ** 104 ** 105 ** 105 ** 106 ** 107 ** 108 ** 109 ** 110 ** 111 1 {
Page 4 of 16	Fage 4 of 16 123
4 of 16 EDMDDHandleMgrApi.cc 4 Thu Dec 27 11:38:18 2007	## Routine: UnlockHandleMutex ## Return Codes: ## Purpose: Unlock the mutex for the handle tree object ## **********************************

B00 B0415		100		rApi.cc 5 Page 5 of 16	7 FDMDDHandleMgrAni.cc 5	Thu Dec 27 11:38:18 2007	1
	ead_mutex_unlock(&G_fdSetMtx); xn 0;	<pre>pthread_m</pre>	231 1			return 0;	186 l 187
	lle = highStderr;	*highhandle	229 1		<pre>utex_unlock(&G_fdSetMtx);</pre>	pthread_mutex	184 1
	nurset, &stderrSet, sizeof(fd_set));	memcpy(yourset,	227 1		lle = highStdout;	*highhandle	182 1
	; = stderrSetModified;	stderrSet	225 1	_set));	urset, &stdoutSet, sizeof(fd_set));	memcpy(yourset,	180 1
	<pre>pthread_mutex_lock(&G_fdSetMtx);</pre>	pthread_m	223 1		<pre>stdoutSetModified;</pre>	stdoutSet	178 1
	*status = HANDLEMGR_BAD_PARAM; return -1;		219 2 220 2 221 1		<pre>} pthread_mutex_lock(&G_fdSetMtx);</pre>	pthread_mu	174 I 176 I
	et == NULL highhandle == NULL)	if (yourset {	217 I 218 2		us = HANDLEMGR_BAD_PARAM; n -1;	*status	172 2
	n -1;	return		NULL)	== NULL highhandle ==	if (yourset	170 1
	s == NULL)	if (status == {	211 1 212 1 213 2		n -1;	return	167 2
int *status)	*yourset, int *highhandle,	int getStderrSet(fd_set			1S == NULL)	if (status	
		*/	207	ndle, int *status)	.fd_set *yourset, int *highhandle,	int getStdoutSet(fd_set	162 163
*************************************	* * *	* * * * * * * * * * * * * * * * * * *	205 206			*	160
was st recent copy.	copied into it. Modified is the most recent copy.		204	************	*************	****	159
the stderrSetModified	enz	** Purpose:	202 203	the most recent copy.	copied into it. Modified is	* * *	157
ure.	des: int - 0 for success or -1 for failure.	** Return Codes:	200	t after the stdoutSetModified was	Returns the stdoutSet fd_set	** Purpose:	155 156
placeholder		* * *	197		fd_set * - the stdoutSet	** Return Cod	153
he from descriptors andle for this set	fd_set *yourset - the fd_set for the from descriptors int *highhandle - the highest handle for this set	Outputs:	195 196		None	** Outputs:	151
	None	** Inputs:	193		None	** Inputs:	149
	getStderrSet	** Routine:	190		getStdoutSet	** Routine:	146
*******************************	*************************************	****	189	***************************************	********************	/** * * * * * * * * * * * * * * * * * *	145
Page 6 of 16	7 getStderrSet	Thu Dec 27 11:38:18 2007	Thu De	et Page 5 of 16)7 getStdoutSet	Thu Dec 27 11:38:18 2007	Thu De

295 1	293 1	289 2 290 2 291 1	287 1	285 1	283 1	281 1	279 1	277 1	271 1 272 2 273 2 274 2 275 1	269 1	264 2 265 2 266 2 267 1	263 1	260 2 261 1		255 1 256 1	253 254	251	250				241 242			236	Page 7 c
return 0;	*hs = ret;	*status = HANDLEMGR_LOOKUP_FAILED; return -1; }	if (ret == NULL)	delete handleobj;	UnlockHandleMutex();	<pre>ret = (EDMDDHandle *) G_handleTree.find(handleobj);</pre>	LockHandleMutex();	<pre>handleobj -> setSessionID(*sess);</pre>	<pre>if (handleob] == NULL) { *status = HANDLEMGR_NO_MEMORY; return -1; }</pre>	ndleobj = ne	*statu returi	if (hs == NULL sess == NULL)	return -1;	if (status == NULL)	{ EDMDDHandle *ret, *handleobj;	<pre>int LookupHandleSet(</pre>	*/	。" 17.	** Purpose: Looks up a handle set.	** Return Codes: **	** EDMDDHandle **hs - the handle set to return **	** Outputs: int *status - a place to put a status if something goes wrong.	** Inputs: DD_client_session_id *sess - the session ID to lookup with	** Routine: LookupHandleSet	<u>│</u> ************************************	of 16 LookupHandleSet Thu Dec 27 11:38:18 2007
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EDMDDHandleMgrApi.cc 8																										LookupHandleSet
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              handle -> handle ->
                               handle -> setStdoutPipe(stdouthandle);
handle -> setStderrPipe(stderrhandle);
handle -> setBindingHandle(comhandle);
                                                                                                                  į f
                                                                                                                                       handle =
                                                                                                                                                                                                                                             <del>^</del>£
                                                                                                                                                                                                                                                                                                                                                          EDMDDHandle *handle;
EDMDDHandle *ret;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Routine:
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                                                                                                                                                                                                                                                                                                                                       int tlags static boolean_ty
                                                                                                                                                                                                                                                                                                                    Ħ.
                                                                                                                   (handle == NULL)
                                                                                                                                                                                                   (sess == NULL || connhandle == NULL
                                                                                                                                                                                                                                                       (status == NULL)
                                                                                                                                                                                                                                                                                                                    (first == TRUE)
                                                                                                                                                                                                                                                                                                                                                                                                                      DD_client_session_id *sess,
                                                                                      return -1;
                                                                                                *status = HANDLEMGR_NO_MEMORY;
                                                                                                                                                                     return -1;
                                                                                                                                                                                                                                  return -1;
                                                                                                                                                                                                                                                                                     first = FALSE;
                                                                                                                                                                                                                                                                                               initFdSets();
                                                                                                                                                                                *status = HANDLEMGR_BAD_PARAM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Codes:
                                                                                                                                        new EDMDDHandle();
                                                                                                                                                                                                                                                                                                                                                                                                            rpc_binding_handle_t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Creates a new handle set.
                                                                                                                                                                                                                                                                                                                                                                                          int *status)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                int
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  int
int
                        setShellHandle(shell);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   rpc_binding_handle_t *connhandle - the connection
ELinkShellObjPtr_ty *shell - the shell handle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 newHandleSet
            setSessionID(*sess);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      for success and
                                                                                                                                                                                                                                                                                                                                                  flags =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  stdouthandle -
stderrhandle -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 *status -
                                                                                                                                                                                                                                                                                                                                          first = TRUE;
                                                                                                                                                                                                                                                                                                                                                    0,
  EDMDDHandleMgrApi.cc 9
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                                                                                                                                                                                                     || shell == NULL)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              send commands to auxproc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    receive responses
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                                                                                                                                                                                                                                                                                                                                                                                        p.
H
                                                                                                                                                                                                                                                                                                                                                                                                                                  ret
                                                                                                                                                                                                                                                                                                               return 0;
                                                                                                                                                                                                                                                                                                                                                                                                             UnlockHandleMutex();
                                                                                                                                                                                                                                                                                                                                                                                                                                                      LockHandleMutex();
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    μ.
Η
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FD_SET(stderrhandle,
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fcntl(stdouthandle, F_SETFL, flags |
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 pthread_mutex_lock(&G_fdSetMtx);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FD_SET(stdouthandle,
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                                                                                                                                                                                                                                                                                                                                                                                        (ret == NULL)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (stdouthandle > highStdout)
                                                                                                                                                                                                                                                                                                                                                                                                                                   II
                                                                                                                                                                                                                                                                                                                                                         delete handle;
                                                                                                                                                                                                                                                                                                                                                return -1;
                                                                                                                                                                                                                                                                                                                                                                  *status = HANDLEMGR_INSERT_FAILED;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           highStderr = stderrhandle;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               highStdout = stdouthandle;
                                                                                                                                                                                                                                                                                                                                                                                                                                 (EDMDDHandle *) G_handleTree.insert(handle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 fcntl(stderrhandle,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       F_SETFL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        &stdoutSetModified); &stderrSetModified);
     EDMDDHandleMgrApi.cc 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      , F_GETFL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            newHandleSet
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0);
o_NDELAY);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       O_NDELAY);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9
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				return 0;	445 }
			<pre>> getStdoutPipe(); > getStderrPipe();</pre>	*sout = handle -> *serr = handle ->	441 1 442 1
	return 0;	486 1 487 }	== NULL)	<pre>if (lret != 0) return lret; else if (handle = return -1;</pre>	436 1 437 1 438 1 439 1
	*cscb = handle -> getBindingHandle();	484 1	LookupHandleSet(sess, &handle, status);	et =	434 1
	<pre>if (lret != 0) return lret; else if (handle == NULL) return -1;</pre>	479 1 480 1 481 1 482 1	HANDLEMGR_BAD_PARAM;	*status = return -1;	429 2 430 2 431 2 432 1
status);	<pre>lret = LookupHandleSet(sess, &handle, s</pre>	477 1	sout == NULL serr == NULL)	if (sess == NULL	428 1
	<pre>if (sess == NULL CSCD == NULL State { return -1; }</pre>	472 1 473 2 474 2 475 1	LL)	<pre>if (status == NULL) { return -1; }</pre>	423 1 424 2 425 2 426 1
ototoo NIII.)	MDDHandle *nandle;	469 1 470 1	handle; lret;	EDMDDHandle *handlint lret;	420 1 421 1
OUT rpc_binding_handle_t **cscb,	ion_id *sess, atus)		nt_session_id *sess, OUT int *sout, OUT int *serr, *status)	nt etHandleSet (IN DD_clie OUT int	
		463 */		*/	414
*************************************	***************************************	461 ×	**************************************	*** ** ** ** ** ** ** ** ** ** ** ** **	
erwise	Purpos		success and non-zero otherwise s a handle set.	0 for Purpose: Remove	410
ori; co					407
binding handle for this session	rpc_binding_handle_t *cscb -		 stdout descriptor for the service. stderr descriptor for the service. 	** int *sout ** int *serr	405
e status if something goes wrong.	** Outputs: int *status - a place to put a	453	*status - a place to put a status if something goes	** Outputs: int *st	403 404
the handle set			the handle set	7	402
session ID to use to loc	** Routine: GetCSCHandle ** Inputs: DD_client_session_id *sess - a	448 449 450	getHandleSet DD client session_id *sess - a session ID to use to look	** Routine: getHandleSet ** Trouts: DD client se	398 399 400
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<pre>{ EDMDDHandle *handle; EDMDDHandle *ret; int</pre>	559 1 11 560 2 { 561 2 } 562 1 } 562 1 if 563 2 { 566 2 2 { 567 2 } 568 1 Ire 570 1 Ire 571 1 els 571 1 Loc: 579 1 ret 581 1 Unl 583 1 if 584 2 { 585 2 } 586 2 } 587 2 In the land of the land	<pre>if (sess == NULL shell == NULL status == NULL) { return -1; } lret = LookupHandleSet(sess, &handle, status); if (lret != 0) return lret; else if (handle == NULL) return -1; *shell = handle -> getShellHandle(); return 0;</pre>	516 2 517 1 519 1 521 1 522 1 524 1 526 1 528 1 529 }
EDMDDHandle *handle; EDMDDHandle *ret; int	יממי ימממי י יייי י ייייי	<pre>(sess == NULL shell == NULL status == return -1; t = LookupHandleSet(sess, &handle, status); (lret != 0) return lret; e if (handle == NULL) return -1; ell = handle -> getShellHandle(); urn 0;</pre>	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
EDMDDHandle *handle; EDMDDHandle *ret; int lret; int lret; int lret; int lret; int lret; ELinkShellObjPtr_ty *s error_status_t err; if (status == NULL) { return -1; } if (sess == NULL) { *status = HANDLEMG return lret; else if (handle == NUL return -1; LockHandleMutex(); ret = (EDMDDHandle *) UnlockHandleMutex(); if (ret == NULL) { *status = HANDLEMG delete handle; return -1; }		<pre>(sess == NULL shell == NULL status == return -1; t = LookupHandleSet(sess, &handle, status); (lret != 0) return lret; e if (handle == NULL) return -1; ell = handle -> getShellHandle(); urn 0;</pre>	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
EDMDDHandle *handle; EDMDDHandle *ret; int lret; int lret; int lret; rpc_binding_handle_t * ELinkShellObjPtr_ty *s error_status_t err; if (status == NULL) { return -1; } if (sess == NULL) { *status = HANDLEMG return lret; else if (handle == NUL return -1; LockHandleMutex(); ret = (EDMDDHandle *) UnlockHandleMutex(); if (ret == NULL) { *status = HANDLEMG delete handle; return -1;	- A A A A A A A A A A A A A A A A A A A	<pre>(sess == NULL shell == NULL status == return -1; t = LookupHandleSet(sess, &handle, status); (lret != 0) return lret; e if (handle == NULL) return -1; ell = handle -> getShellHandle(); urn 0;</pre>	טן ד דודו ב ר
EDMDDHandle *handle; EDMDDHandle *ret; int lret; int lret; rpc_binding_handle_t * ELinkShellObjPtr_ty *s error_status_t err; if (status == NULL) { return -1; } if (sess == NULL) { *status = HANDLEMG return 1ret; else if (handle == NUL return -1; } LockHandleMutex(); ret = (EDMDDHandle *) UnlockHandleMutex(); if (ret == NULL) { *status = HANDLEMG delete handle	- A R R R R R R R R R R R R R R R R R R	<pre>(sess == NULL shell == NULL status == return -1; t = LookupHandleSet(sess, &handle, status); (lret != 0) return lret; e if (handle == NULL) return -1; ell = handle -> getShellHandle(); urn 0;</pre>	0 H H H H H H
EDMDDHandle *handle; EDMDDHandle *ret; int lret; int lret; int lret; int lret; if (status == NULL) { return -1; } if (sess == NULL) { return -1; } if (lret == O) return lret; else if (handle == NULEMC return -1; } LockHandleMutex(); ret = (EDMDDHandle *) UnlockHandleMutex(); if (ret == NULL) {		<pre>(sess == NULL shell == NULL status == return -1; t = LookupHandleSet(sess, &handle, status); (lret != 0) return lret; e if (handle == NULL) return -1; ell = handle -> getShellHandle(); urn 0;</pre>	טן ד בילוד ב ה
EDMDDHandle *handle; EDMDDHandle *ret; int lret; int lret; rpc_binding_handle_t * ELinkShellObjPtr_ty *s error_status_t err; if (status == NULL) { return -1; } if (sess == NULL) { *status = HANDLEMG return -1; } lret = LookupHandleSet if (lret != 0) return lret; else if (handle == NUL return -1; LockHandleMutex(); ret = (EDMDDHandle *) UnlockHandleMutex(); if (ret == NULL)	- A R - A - A - A - A - A - A - A - A -	<pre>(sess == NULL shell == NULL status == return -1; t = LookupHandleSet(sess, &handle, status); t = LookupHandleSet(sess, &handle, status); (lret != 0) return lret; e if (handle == NULL) return -1; ell = handle -> getShellHandle(); urn 0;</pre>	ט ע ע עעעע ע ע
EDMDDHandle *handle; EDMDDHandle *ret; int		<pre>(sess == NULL shell == NULL status == return -1; t = LookupHandleSet(sess, &handle, status); t = LookupHandleSet(sess, &handle, status); return lret; eif (handle == NULL) return -1; ell = handle -> getShellHandle(); urn 0;</pre>	מת ת תחתם ם כ
EDMDDHandle *handle; EDMDDHandle *ret; int int int int int int int int	- G G G G G G G G G G G G G G G G G G G	<pre>(sess == NULL shell == NULL status == return -1; t = LookupHandleSet(sess, &handle, status); (lret != 0) return lret; elf (handle == NULL) return -1; ell = handle -> getShellHandle(); urn 0;</pre>	1 1 1 1 1 1 2
EDMDDHandle *handle; EDMDDHandle *ret; int		<pre>(sess == NULL shell == NULL status == return -1; t = LookupHandleSet(sess, &handle, status); (lret != 0) return lret; return lret; e if (handle == NULL) return -1; ell = handle -> getShellHandle(); urn 0;</pre>	2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
<pre>EDMDDHandle *handle; EDMDDHandle *ret; int</pre>	יממי ימממי יייי	<pre>(sess == NULL shell == NULL status == return -1; t = LookupHandleSet(sess, &handle, status); (lret != 0) return lret; elf (handle == NULL) return -1; ell = handle -> getShellHandle(); urn 0;</pre>	טם ת תחתם ת כ
<pre>EDMDDHandle *handle; EDMDDHandle *ret; int int int int int if cycle inding_handle_t *bh; ELinkShellobjPtr_ty *shell; error_status_t err; if (status == NULL) { return -1; } if (sess == NULL) { return -1; } lret = LookupHandleSet(sess, &handle, if (lret != 0) return lret; else if (handle == NULL) return -1;</pre>	אממן יי	<pre>(sess == NULL shell == NULL status == return -1; t = LookupHandleSet(sess, &handle, status); (lret != 0) return lret; eif (handle == NULL) return -1; ell = handle -> getShellHandle(); urn 0;</pre>	מת ת תתתת ת ע
EDMDDHandle *handle; EDMDDHandle *ret; int int int rec_binding_handle_t *bh; ELinkShellobjPtr_ty *shell; error_status_t err; if (status == NULL) { return -1; } if (sess == NULL) { *status = HANDLEMGR_BAD_PARAM; return -1; } lret = LookupHandleSet(sess, &handle, if (lret != 0) return lret; else if (handle == NULL)	יממי ומממי י יווי	<pre>(sess == NULL shell == NULL status == return -1; t = LookupHandleSet(sess, &handle, status); (lret != 0) return lret; eif (handle == NULL) return -1; ell = handle -> getShellHandle(); urn 0;</pre>	2 H H H H H H H H
<pre>EDMDDHandle *handle; EDMDDHandle *ret; int int int int int iret; ipc_binding_handle_t *bh; ELinkShellObjPtr_ty *shell; error_status_t err; if (status == NULL) { return -1; } if (sess == NULL) { *status = HANDLEMGR_BAD_PARAM; return -1; } lret = LookupHandleSet(sess, &handle, if (lret != 0) return lret;</pre>		<pre>(sess == NULL shell == NULL status == return -1; t = LookupHandleSet(sess, &handle, status); (lret != 0) return lret; e if (handle == NULL) return -1; ell = handle -> getShellHandle(); urn 0;</pre>	2 H H H H H H H H
<pre>EDMDDHandle *handle; EDMDDHandle *ret; int</pre>		<pre>(sess == NULL shell == NULL status == return -1; t = LookupHandleSet(sess, &handle, status); (lret != 0) return lret; e if (handle == NULL) return -1; ell = handle -> getShellHandle();</pre>	
<pre>EDMDDHandle *handle; EDMDDHandle *ret; int</pre>	- 4884 H	<pre>(sess == NULL shell == NULL status == return -1; t = LookupHandleSet(sess, &handle, status); (lret != 0) return lret; e if (handle == NULL) return -1; ell = handle -> getShellHandle();</pre>	
<pre>EDMDDHandle *handle; EDMDDHandle *ret; int</pre>	- 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	<pre>(sess == NULL shell == NULL status == return -1; t = LookupHandleSet(sess, &handle, status); (lret != 0) return lret; e if (handle == NULL) return -1;</pre>	
EDMDDHandle *: EDMDDHandle *: int rpc_binding_h ELinkShellObj: error_status_ if (status == { return -1 } if (sess == N1 { *status == return -1 }	- 0 0 4 4 0 0 0	<pre>(sess == NULL shell == NULL status == return -1; t = LookupHandleSet(sess, &handle, status); (lret != 0) return lret; e if (handle == NULL)</pre>	
EDMDDHandle * EDMDDHandle * int rpc_binding_h ELinkShellObj error_status_ if (status == { return -1 } if (sess == N1 { *status ==	N N F N N F	<pre>(sess == NULL shell == NULL status == return -1; et = LookupHandleSet(sess, &handle, status); (lret != 0) return lret;</pre>	
EDMDDHandle *: EDMDDHandle *: int rpc_binding_h ELinkShellobj: error_status_ if (status == { return -1 } if (sess == N1	2 - 2 2 -	<pre>(sess == NULL shell == NULL status == return -1; et = LookupHandleSet(sess, &handle, status);</pre>	
EDMDDHandle *handle; EDMDDHandle *ret; int int rpc_binding_handle_t ELinkShellObjPtr_ty error_status_t err; if (status == NULL) { return -1; } if (sess == NULL)		<pre>sess == NULL shell == NULL status == return -1; = LookupHandleSet(sess, &handle, status);</pre>	
EDMDDHandle *handle; EDMDDHandle *ret; int lret; int rpc_binding_handle_t ELinkShellObjPtr_ty error_status_t err; if (status == NULL) { return -1;	- 22 2	<pre>f (sess == NULL shell == NULL status == return -1;</pre>	
EDMDDHandle *handle; EDMDDHandle *ret; int int; ipc_binding_handle_t ELinkShellObjPtr_ty error_status_t err; if (status == NULL) { return -1;	2 2 1	<pre>f (sess == NULL shell == NULL status == return -1;</pre>	
EDMDDHandle *handle; EDMDDHandle *ret; int lret; rpc_binding_handle_t ELinkShellObjPtr_ty error_status_t err; if (status == NULL)	J F	(sess == NULL shell == NULL status ==	
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EDMDDHandle *handle; EDMDDHandle *ret; int lret; rpc_binding_handle_t ELinkShellObjPtr_ty error_status_t err;	* * - dancer		514
EDMDDHandle *handle; EDMDDHandle *ret; int rpc_binding_handle_t FI:nkShallObiPtr tv	→ ⊢		
EDMDDHandle *handle; EDMDDHandle *ret; int lret;		EDMDDHandle *handle;	510 1 {
EDMDDHandle *ha EDMDDHandle *re	<u>,</u>	OUT int *status)	
		<u>1</u> 6	0
	1	int GetshellWandle(
	550		
int		*	n 0 n
	040	***************************************	
**		****	
**************************************	* * * *	** Purpose: Returns shell handle.	502
THE POST OF THE PROPERTY OF TH		** U for success and non-zero ocherwise	500
** Dirocco. Demoves a handle set.	* * * *	Return Codes:	499
	* *		498
** Return Codes:		** ELINKSNELIOD]PET_EY ^*SNELL - SHELL HAMOLE LOT UHLS	497
wrong.			
Outputs: int *status - a place to put a status if something		** Outputs: int *status - a place to put a status if something goes	496
* * * * Che nangue sec		** the handle set	494
** Inputs: DD_client_session_id *sess - a session ID to use to look		** Invite: DD Client spession id *spess - a spession ID to use to look	492
** Routine: deleteHandleSet	*	** Routine: GetShellHandle	491
* *	**	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	9
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c 27 11:38:18 2007 deleteHandleSet Page 14 01 to	Thu Dec 27 11:38	Thu Dec 27 11:38:18 2007 GetShellHandle Page 13 of 16	hu De

וות הפקבר ווימסיים בסמי	EDMDDHandlewigrapi.cc To	Page 16 of 16	Thu Dec 27 11:38:18 2007		
		***************************************		return 0;	607 1 608 }
				delete ret;	605 1
				<pre>ELinkDestroyObj(hand, *shell);</pre>	603 1
				<pre>shell = ret -> getShellHandle();</pre>	601 1
				<pre>csc_free_binding(bh, 0, &err);</pre>	599 1
				<pre>bh = ret -> getBindingHandle();</pre>	597 1
				<pre>pthread_mutex_unlock(&G_fdSetMtx);</pre>	595 1
			&stdoutSetModified); &stderrSetModified);	<pre>FD_CLR(ret -> getStdoutPipe(), FD_CLR(ret -> getStderrPipe(),</pre>	592 1 593 1
					. 500